Carephone 61

CRS-H61M-xx

BOSCH

en User Manual

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1 Safety Instructions

CAUTION!
Read through the safety instructions carefully before using the unit for the first time. This is important for connection, use and safety.

- Do not install the unit near a heating appliance.
- Do not expose the unit to direct sunlight.
- Do not install in a wet or humid environment.
- Never touch the power adapter with wet hands.
- Do not attempt to open the unit or the power adapter.
- When unplugging the unit from the power outlet, never pull on the power cord but always grip the power adapter.
- Connect the Carephone 61 only to a professionally installed 230 V AC/50 Hz power outlet with a 10 A fuse.
- Do not install the Carephone 61 in the proximity of DECT/ GSM telephones, TV sets, large metal objects, microwave appliances or radio telephones. This will impair the reception of signals from the wireless transmitter.
- Use only original equipment for cables and power supply. Any other power adapter could damage the unit.
- Electrolytes or gases may be emitted from the battery should it leak under exceptional circumstances. If this happens, deactivate the unit by isolating it from the phone network and power supply. Battery replacement must be carried out by trained service personnel only.

Electrostatic Discharge

WARNING!
The Carephone 61 contains highly sensitive electronic components. It should be opened only in an **ESD** protected environment with respect to the following precautions. Discharge yourself from electrostatic loads by touching a grounded conductive surface before opening the unit.

2 Features

The Carephone 61 has been designed to ensure maximum security for persons living in their own homes. It can be used to send emergency calls to a receiver or a telephone.
The person requiring assistance activates a call by pressing a button on the Carephone 61 or by using a wireless transmitter. This action establishes a voice connection between the person requiring assistance and the call receiver.

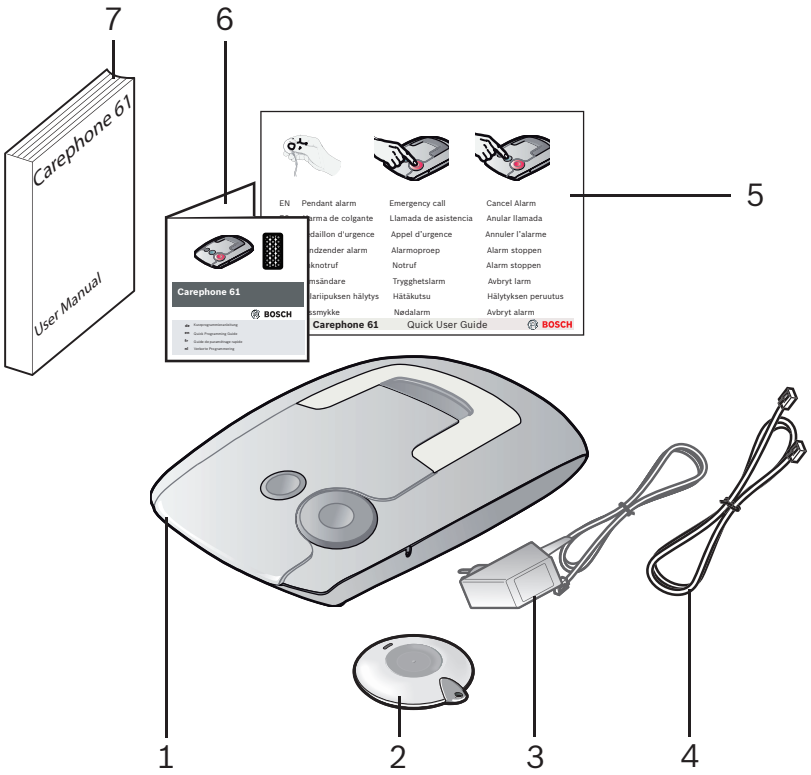
The device has two basic operating modes:

1. The Carephone 61 is part of a social alarm system that consists of a monitoring centre that can be reached at any time and the Carephone itself. Calls are sent to this monitoring centre.
2. The unit is operated as a standalone unit, in which case emergency calls will be sent to private phones.

The Carephone 61 provides connections for an external microphone and an external loudspeaker, as well as wired input and output, and a microSD memory card. It can be used with up to 10 wireless transmitters. A signaling device can also be connected for individuals with speech/hearing difficulties.

microSD Logo is a trademark of SD-3C, LLC.

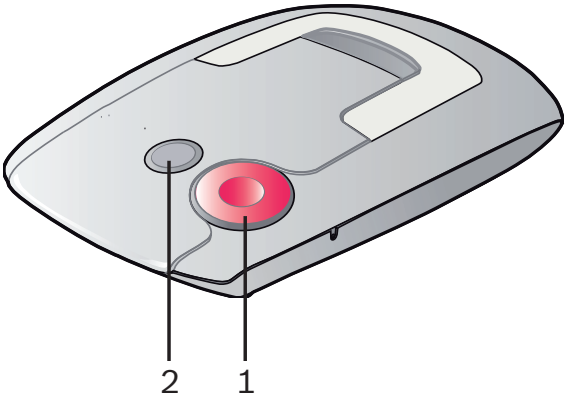
3 Scope of Delivery



1. Carephone 61 including a rechargeable backup battery
2. Wireless transmitter (battery included), necklace and bracelet
3. Power supply unit
4. Phone or network cable, optionally with a country-specific telephone plug
5. Quick user guide
6. Quick programming guide
7. User manual

4 Product Description

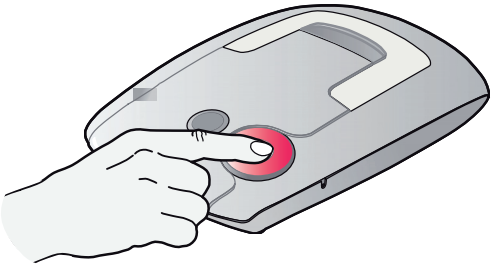
4.1 Unit Description



1. Red emergency call button
2. Cancel / Action button

4.2 Emergency call button

If you require help, press the red emergency call button to initiate a call.

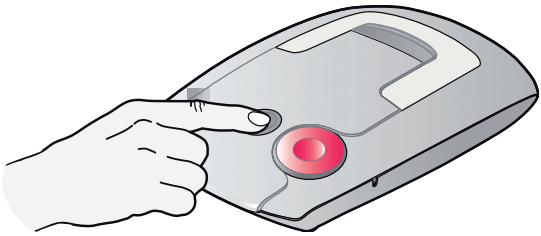


The call will be answered either by a person at the monitoring centre or a private individual, according to the programmed telephone number.

4.3 Cancel / Action button (S button)

Cancel emergency call

If you have pressed the emergency call button by mistake, you can cancel the call with the Action button during the pre-alarm time. Press the Action button until the unit announces **"stop"**. Calls cannot be cancelled after the pre-alarm time.



4.3.1 Action button: Service call

The Action button can also be used as a service button, when programmed. If you press the button and hold it for at least 2 seconds, the unit dials a call number that has been programmed for the service call and you hear the announcement "**service call"**.

4.3.2 Action button: Direct call

The Action button can be used to make a direct call. When the Action button is pressed, the Carephone 61 makes one single call to an analog telephone destination. In case of an call sent by a direct call, the alarm can also be cancelled after the pre-alarm.

NOTICE!

A direct call is not possible through an IP connection.

4.3.3 Action button: Unit status

The Action button lights up if there is a malfunction. To check the unit's status, press the Action button, the status is announced.

4.4 Device acknowledgments

4.4.1 Light signals

The Carephone 61 has two indicator lamps that display the status of the unit. The symbols have the following meaning:

	Lamp shines bright
	Lamp shines dull
	Lamp blinks (0.5 s)
	Lamp flashes (0.1 s)

Status	Description or Action	Blue	Red
Initialization	After power on.		
Error	Error message is announced once. Press Action button to repeat.		
Standby normal mode	Unit is in standby.		
Standby battery operated			
Standby mode with the Action button set as service button			
Pre-alarm	Cancel with Action button.		
Connection	Establish connection.		
Speak	Speak (for the hearing impaired)		
Listen	Listen (for the hearing impaired)		
Repeated call	When a call is repeated.		
Call activated	If the call not acknowledged, a new call is sent.		
Call back waiting time	Pressing Action button acknowledges the alarm		

4.4.2 Sound signal in synthetic speech disabled mode

When the Carephone 61 is in synthetic speech disabled mode, certain technical messages are announced by sound signals.

Sound Signal	Meaning
1 beep	power failure
2 beeps	line failure
3 beeps	battery empty
4 beeps	transmission failure

4.4.3 Local voice announcements from the unit

When pressing a button

Voice announcement	Meaning
"Emergency call"	When the emergency call button is pressed.
"Call activated"	Connection failed - unit is calling again.
"Stop"	When the action button is pressed during the pre-alarm. The call is cancelled.
"Service call"	When the action button is pressed, if it is programmed as a service button or direct call.
"Emergency call cleared"	When a repeated call is acknowledged on the unit.
"Call ended"	When a call back is acknowledged on the unit.
"Radio button[x]"	When a wireless transmitter is pressed, x being the number of the transmitter, from 1 to 10.
"Alarm input"	When the external alarm input is activated.

Error messages

Voice announcement	Meaning and Action needed
"Power failure"	Power failure. Check the power connection.
"Line failure"	Connection to the telephone network has been lost. Check the connection.
"Transmission failure"	Emergency call not sent. Contact monitoring centre.
"Unit battery empty"	Backup battery is empty. Connect to the mains power supply. Contact the monitoring centre.

5 Installation

CAUTION!
Before starting to install and program the Carephone 61, read the safety instructions carefully.

5.1 Installation recommendations

- Place the unit on a plane and non-slippery surface.
- Do not install on soft surfaces as this impairs voice quality.
- Take care not to cover the microphone located on the right-hand side of the unit.
- Alarms are not sent if the telephone line or the IP connection are out of order.
- The Carephone must be connected with the power supply.
- To send an alarm, at least one alarm receiver (a monitoring centre or a private phone) and the subscriber number must be programmed.
- The power adaptor of the Carephone 61 must placed at least **10 cm** away from the device.
- When using the Carephone 61 with a GSM gateway, place them at least **1 m** from each other.
- Construction materials within a residence can affect the range of the device. For example, concrete walls with steel reinforcements can hamper the radio signal more than a brick wall.
- Location of the Carephone 61 within a residence can affect the range of the device. The best place to locate the Carephone is in a central room.

5.2 Placing the Carephone 61

Place the Carephone 61 on a surface or mounted to the wall.

Placing on a surface
The Carephone 61 is designed for use at home. Many items of furniture are coated with a variety of paints, varnishes and plastics. The feet of the Carephone 61 may leave marks on furniture as a result of chemical processes.

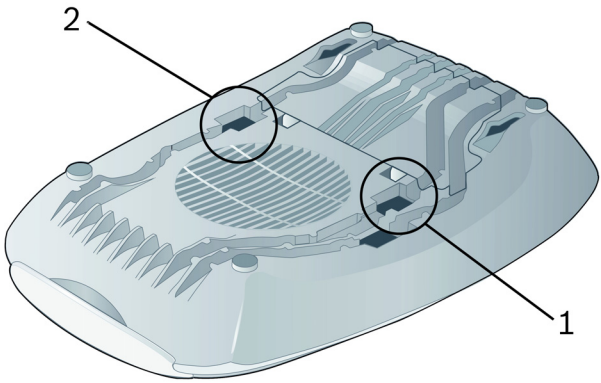
Wall mounting

You can set the Carephone 61 to the wall either using a wall bracket that can be ordered as an accessory, or you can fix the unit directly to the wall without a bracket. The wall bracket stabilizes the Carephone 61 and makes installation easier.
See *Section A.3 Wall mounting, page 44*.

5.3 Connecting the Carephone 61

5.3.1 PSTN or GSM connection

1. Insert the plug of the telephone cord into the socket (1) on the Carephone 61. Feed the cords through the cable channels and through the opening on the back of the unit.



2. Fit the plug of the telephone cord into the socket of your telephone outlet or GSM gateway.
3. Insert the plug of the power supply into the socket (2) on the Carephone 61.

CAUTION!
Only connect the unit to a phone outlet that has been correctly installed by your telephone service provider.

4. Plug the power adapter into the line power outlet.

All the indicator lamps light up for approx. 2 seconds, this is a battery test. The unit offers a choice of languages and after

selection enters standby mode (see *Section 6.2.4 Programming steps, page 17*). The unit can now be programmed.

NOTICE!
The backup battery will now charge up. The specified standby time is available when the battery is fully charged, after 16 hours.

5.3.2 IP connection

Refer to the user manual of the IP module.

5.3.3 VoIP connection

When using a VoIP connection, be aware of the following limitations: network availability, priority of the emergency call, power failures.

5.3.4 Connection configuration

NOTICE!
In the event of an emergency, the unit must be able to send out an emergency call even if a phone call is in progress at the time. The Carephone 61 must interrupt the phone call.

To check whether an emergency call can be sent:

1. Make a phone call as you normally would.
2. When the phone call is in progress, press the red button.

If the setup is correct, the phone call will be interrupted.

CAUTION!
With a private branch exchange (PABX) there is no guarantee that a phone call will be interrupted by the emergency call.

5.4 Deinstallation

To switch off the Carephone 61 and the backup battery, remove the power plug from the unit.

NOTICE!
If you remove the power plug from your power outlet, the unit announces "**power failure"**. The unit will switch to battery operation.

6 Programming

Before you program the Carephone 61 you must be familiar with all of the unit's functions. Programming is specifically intended for trained users.

NOTICE!
Correct programming of the Carephone 61 is an important part for the full function.

6.1 Programming methods

The Carephone 61 can be programmed in different ways:

Local programming with the keyboard
Use the integrated keyboard to program the unit.

Programming with a microSD memory card
See *Section 7.5 microSD memory card, page 29*.

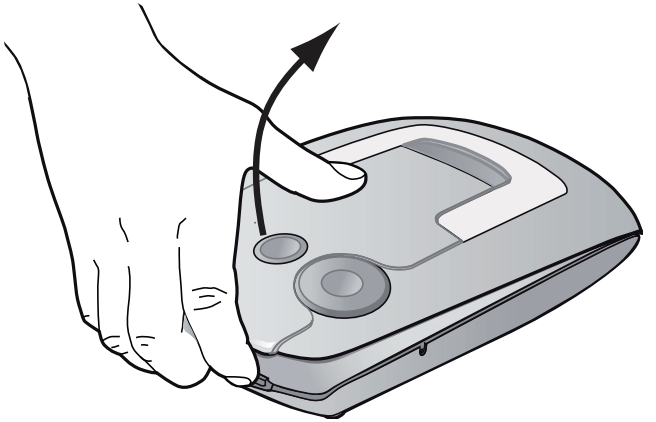
Remote programming from a monitoring centre
Connect the Carephone 61 to the monitoring centre by pressing the emergency call button. The monitoring centre can now download parameters to your Carephone 61.

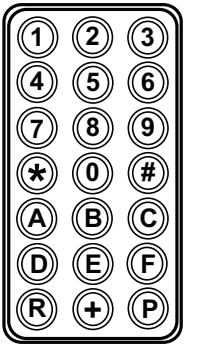
NOTICE!
Please check with your monitoring centre the remote programming possibilities.

6.2 Programming procedure

6.2.1 Opening the unit and access the keyboard

To access the keyboard, open the unit by lifting the top cover.





NOTICE!

A quick programming guide is provided on the back side of the cover of the unit. It is intended for experienced users who are familiar with programming the Carephone 61.

6.2.2 Entering keyboard programming

1. On the keyboard, press **P** at least one second. The unit announces **"Setup"** and the version.
2. Enter the Personal Identification Number (PIN). The PIN factory setting is **246810**. If the PIN is entered correctly, the unit announces **"Selection"**.
3. On the keyboard, enter the programming step you wish to change. The steps can be carried out in any order.
4. Enter the new setting as required.
5. Press **C** to confirm your entries. The Carephone 61 automatically goes to the next programming step or substep.
6. To leave the programming mode, press ******.

6.2.3 Key functions during keyboard programming

The following key functions can be used at any time.

C	Save new settings and go to the next programming step. Settings that are not confirmed with **C** will not be saved!
A	The setting of the programming step is erased.
*	Return to the beginning of the programming mode. The Carephone 61 announces **"Selection"**.
**	Terminate programming. The Carephone 61 announces: **"Setup ended".** Programming also terminates automatically if no entries are made for 10 minutes.
0 to **9**	Enter the programming data.
P	The Carephone 61 announces the programming step's number and current setting.
R	Reset the Carephone 61. It will then emit a beep. All pending alarms/calls are cancelled and the Carephone 61 reboots.

6.2.4 Programming steps

Programming the Carephone 61 consists of individual steps, numbered 01 to 99. A programming step consists of a number and an associated setting. Press the number of the step that you want to access.

01 Language selection
When the Carephone 61 is powered on, it announces different languages: – **1** = German, **2** = Dutch, **3** = French, **4** = English, **5** = Spanish, **0** = synthetic speech disabled. Select as soon as you hear your setting.

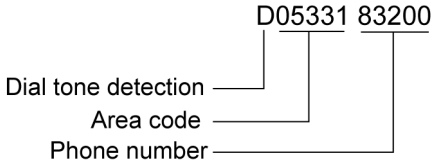
03 Radio jamming
The Carephone 61 sends a technical message to the monitoring centre when a radio signal from another device disturbs it. – **0** = off, **1** = on.

11- 19 & 10 Destination number of the emergency call recipient

You can enter here the destination number of the emergency call recipient, either a telephone number, or an IP address.

a. Enter the destination number of the emergency call recipient.

In the case of a telephone number, register the call number as follows:



You can add the following criteria in a telephone call number:
B = Dial pause, **D** = Dial tone detection.

In the case of an IP address, the call number should be written in numbers without dots, always with 12 digits. Example: 192168010001.

b. Press **C** to confirm.

After entering the call number, you must enter the protocol:

- **0** = monitoring centre (protocols RB2000, RB2000E, ANT)
- **1** = monitoring centre (TTnew+ protocol)
- **3** = monitoring centre (CPC protocol)
- **4** = to phone with acknowledgement
- **5** = to phone without acknowledgement (only for direct call)
- **7** = monitoring centre (BS8521 protocol)
- **9** = monitoring centre (RBIP protocol)

The Carephone 61 goes automatically to the next programming step and you can enter the next call number. When an emergency call is sent and if the call to the first call number is not successful, the Carephone 61 will try the next numbers in the sequence 11 to 10. If the last number has been dialed unsuccessfully, the unit starts with the first number again and continues until it either sends an emergency call successfully. A single programmed number will be tried 12 times. For several numbers, a maximum of 15 calls in total will be made.

23 Waiting time for repeated emergency call

An emergency call is repeated to check the arrival of staff until it is acknowledged by pressing the Action button on the Carephone 61, or the repeated call is disabled by the monitoring centre. The emergency call is repeated when the defined waiting time is exceeded.

– Enter a time between **0** and **99** minutes. **0** = off.

24 Confirmation with call

When the repeated emergency call has been locally acknowledged, you can speak directly to the monitoring centre.

– **0** = off (no call is made), **1** = a call is made to the monitoring centre.

If this function is selected, the person rendering assistance can speak to the monitoring centre immediately.

25 Radio transmission monitoring

The Carephone 61 can monitor the wireless transmitters that are assigned. The wireless transmitters send a signal to the Carephone 61 at regular intervals. A failure message is sent to the monitoring centre if the Carephone 61 does not receive this signal at least once a week.

– **0** = off, **1** = on.

26 Call back waiting time

The call back function enables the help provider or monitoring centre to terminate an alarm after having acknowledged it. The Carephone must be called back, or the Action button must be pressed, after an alarm has been acknowledged. Define the waiting time after the acknowledgement, during which a call back will be accepted. If this call back waiting time has elapsed, then a new call will be sent by the Carephone.

– Enter a time between **0** and **9** minutes. **0** = off.

28 Call forwarding

It is possible for the monitoring centre (if it supports this functionality) to ask the Carephone 61 to forward the current call to a new destination using a specified protocol. This step is used to allow the Carephone 61 to use the specified protocol, or to force it to use telephone protocol. This function is only possible with protocols RB2000E (target **0**), CPC (target **3**) and RBIP (target **9**).

– **0** = forwarding to another number, **1** = forwarding to a telephone.

29 Hear/speech impaired

This function is dedicated to users with speaking or hearing difficulties. Once a connection to the monitoring centre has been established, the signaling device is activated to advise the user that he or she is through to the monitoring centre (the centre is listening). If the user now presses the emergency call button again, the message **emergency call** is sent to the monitoring centre. If the stop button is pressed, then the recorded message (e.g. "everything is okay") is sent to the monitoring centre.

– **0** = off, **1** = on (see also programming step 72).

30 Device number

When an emergency call is made, this number is sent to the monitoring centre. The number can be up to 12 digits long. Numbers 0000, 9998, 9999 and 999999 may not be used.

32 Call progress tones audible

You can choose to hear the call progress tones when the Carephone makes a call.

– **0** = not audible, **1** = audible.

33 Speak / Listen command audible

You can choose to hear the commands when the Carephone switches between speak and listen in half-duplex mode.

– **0** = not audible, **1** = audible.

34 Personal voice recording

For calls to telephone connections, a recorded message can be sent instead of the subscriber's number. Maximum message length is 6 seconds.

a. Press **D** to start recording.
b. The unit announces **"This is the social alarm unit"**. A signal tone introduces the recording of your message.
c. Speak your message.
d. Recording is ended with a signal tone.
e. Press **F** to play back your voice recording.

To delete your voice recording, press the **A** key.

To end the recording early, press the **E** key.

This function is only available through keyboard programming.

41 to 45 IP Module programming steps

Refer to the user manual of the IP Module, these are optional steps.

50 to 58 Alarm type links

It is possible to link an alarm type to specific call numbers. Each programming step refers to a certain alarm type.

- **50**: wireless transmitter (emergency call with a wireless transmitter)
- **51**: emergency call (with the Carephone 61)
- **53**: repeated emergency call and local confirmation
- **55**: service call / direct call. The direct call is only made to a telephone without acknowledgement. One single attempt will be made.
- **56**: technical messages 1 (power failure, power restored, unit battery failure, unit battery low, line failure, line restored)
- **57**: technical messages 2 (automatic test call, radio jamming, radio transmission monitoring, transmitter battery low)

Choose which destination numbers **1** to **10** are associated with each alarm type. If no destination number is entered, then all programmed call numbers will be called.

- **58**: registration call
  Registration call: after an emergency call, the destination number entered in setting 58 will be called for registration purposes. The call destination must be a monitoring centre.

Choose which call numbers **1** to **10** are associated with this alarm type. If no destination number is entered, then no call is made.

60 Number of announcements when calling a telephone

Specify how often the Carephone will announce the recorded message.

- **0** = no announcement, from **1** to **9** for the required number of announcements.

61 Incoming call recognition

Incoming phone calls can be accepted and terminated by the Carephone 61's emergency call button or by using the wireless transmitter if it is programmed for emergency call initiation. The ring tone on the Carephone 61 can be switched on or off and the volume can be adjusted.

- **0** = off (no incoming call can be answered and terminated by the wireless transmitter or call button)
- **1** = with ring tone
- **2** = with loud ring tone
- **3** = with soft ring tone
- **4** = without ring tone (only the phone rings)

62 Loudspeaker volume

This step is used to program the default volume as well as the maximum and minimum settings. The default volume is the volume at which the monitoring centre communicates via the Carephone 61.
Minimum setting is low volume. Maximum setting is high volume. Both can be adjusted by the monitoring centre during a call.
Use settings **1** to **8** to program these three volumes.

63 Acoustical feedback for technical failures

The Carephone 61 can be set to announce technical failures through the LED lamps and the loudspeaker, or through the LED lamps only.

- **0** = loudspeaker off
- **1** = loudspeaker on
- **2** = loudspeaker on from 7:00 to 21:00

This last setting is only available when the Carephone 61 is connected to a monitoring centre that gives the unit regularly a real time clock update. Check with your monitoring centre.

70 Automatic test call interval

You can program the interval between automatic test calls from the Carephone 61 to the monitoring centre in days. In addition, there is a test call after power up or leaving programming mode, as well as a test call per randomization.

- Select from **1** to **28** days.
- **0** = off

71 Action button (S button)

The Action button can be configured differently according to your needs:

– **0** = off
– **1** = service button / direct call (e.g. service call to a monitoring centre or direct call to a relative)
– **3** = activate relay output (e.g. a door opener)

72 Activate output

The Carephone 61 provides a potential-free relay output with a normally open switch contact. The way the output reacts can be programmed.

– **0** = off
– **1** = speak / listen connection and repeated emergency call
– **3** = outgoing emergency call
– **4** = incoming call recognition
– **5** = wireless transmitter
– **6** = remote activation
– **7** = speak / listen connection
– **8** = pre-alarm
– **9** = pre-alarm and speak / listen connection

73 Assign input

The Carephone 61 provides external inputs. The function assigned can be programmed:

– **1** = emergency call button
– **2** = service call
– **3** = external input

After your choice, the input can be chosen as a:

– **0** = normally open contact (closing)
– **1** = normally closed contact (opening)

74 Silent alarm

The Carephone 61 can send silent alarms. When this is activated, the loudspeaker of the Carephone 61 is turned off. Only the microphone remains active.

– **0** = off, **1** = on

75 Individual PIN code

The Carephone 61 is delivered with the factory setting **246810** for the PIN code. It is recommended not to change this code. If you need to change this code, take care to write it down to find it easily. The PIN code is reset when resetting the unit to its factory settings.

77 Pre-alarm time

The pre-alarm time of the Carephone 61 can be programmed. This is the time within which an emergency call that has been initiated can still be stopped.

– Select a setting, in steps of 10 seconds, between **0** and **6.**
– **0** = off, **1** = 10 s, **2** = 20 s, etc.

81-89 & 80 Assigning wireless transmitters

The registered wireless transmitters can be programmed to trigger different alarm functions, e.g. a fire alarm. First, register the wireless transmitters on the Carephone 61; refer to programming steps 90-99. To assign a function to wireless transmitter 91, select programming step 81.

– **0** = emergency call with a wireless transmitter (see step **50**)
– **1** = emergency call with the Carephone 61 (see step **51**)
– **4** = action button (see step **71**)
– **5** = external input (when step **73** is set to **3**)
– **7** = connection to a destination number (with acknowledgement)
– **8** = output assigned in programming step **72**

91-99 & 90 Registering wireless transmitters

Up to 10 wireless transmitters or detectors can be registered with a code number contained in the transmitter itself. These code numbers must be stored in the Carephone 61. To register a wireless transmitter:

a. Select programming step 91.
b. The Carephone 61 announces: **"Selection 91 is..."**
c. Press the button of the corresponding wireless transmitter.
d. The Carephone 61 announces: **"Selection 91 is..."**
e. Press **C** to confirm.

The wireless transmitter is now stored. Restoring the factory settings will delete all registered wireless transmitters.

6.2.5 Special key functions

Restore the programming steps to the factory settings

– Press **P** and **R** together for at least two seconds.

The unit announces **"Setup reset"** and the language can be set.

CAUTION!
This function deletes all user settings and restores the factory settings!

Reset the Carephone 61

– Press **R** for at least 1 second. The unit beeps and reboots.

Enter easy wireless transmitter registering on the keyboard

– Press **P**, **9** and **1** together for at least 2 seconds.
– The unit waits for a wireless signal.
– Press the button of the wireless transmitter.
– Press **C** to confirm.

The unit registers the wireless transmitter's code in **Selection 91** (erasing the previous code) and returns to standby.

Enter easy unit ID programming

– Press **P**, **3** and **0** together for at least 2 seconds.
– The unit goes directly to **Programming Step 30**.
– Type the unit ID (device number) with numeric keys, the unit ID can be up to 12 digits long.
– Press **C** to confirm.

Remote programming (incoming)

– Press <Grey>, hold it, and within 2 seconds, press **<Red>**.

The device acknowledges by announcing **"Setup activated"** and will now take the first incoming call for remote programming.

6.3 Test instructions

Make sure to perform a test regularly, by sending a manual test alarm with the wireless transmitter. This will test the wireless connection between the transmitter and the Carephone 61, and will also test the connection of the Carephone 61 to the monitoring center. This must be done at least once a week.

7 Additional Devices

7.1 Wireless transmitters

The wireless transmitter that is supplied with the Carephone 61 is designed to make emergency calls and allows you to move around your home within radio range.

Always carry the wireless transmitter with you when you are at home.
To make an emergency call using the wireless transmitter, press the button on the wireless transmitter.
The indicator lamp lights up once as confirmation.
The Carephone 61 announces **"radio button [x]"** (x being the number of the transmitter) and the call is activated.
An emergency call made in mistake can be cancelled during the pre-alarm by pressing the Action button on the Carephone 61.

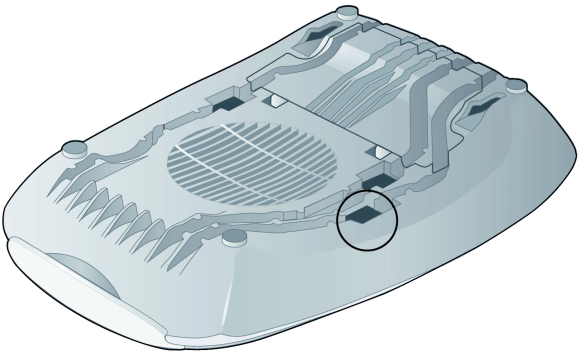
CAUTION!
The radio range between the wireless transmitter and the Carephone 61 depends largely on the environment in which the devices are used. Test the range within your own environment!

7.2 Wireless detectors

Up to 10 wireless detectors, such as a smoke detector or a motion detector, can be registered in the Carephone 61.
These detectors must be registered according to programming step **91-99 & 90 Registering wireless transmitters**.
At installation, these detectors can have an input assignment, see programming step **81-89 & 80 Assigning wireless transmitters**.

7.3 Wired peripherals

A socket to connect an external input is provided on the back of the Carephone 61. The relay output and an external device are connected using a cord with an RJ45 plug.



NOTICE!
Before you connect an external wired device, disconnect the Carephone 61 from the telephone line.

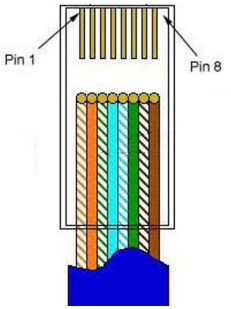
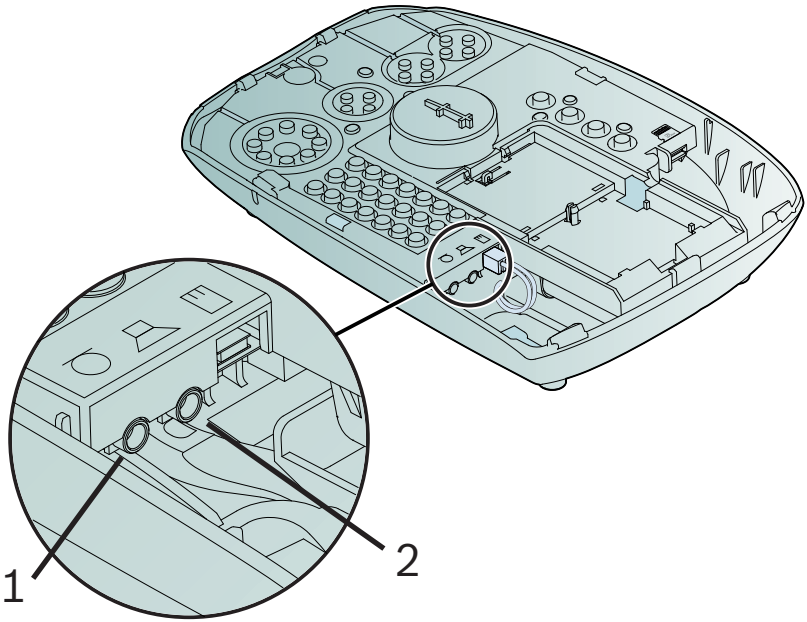
Pin view	RJ45 plug	Function
	Pin 1	*do not connect*
	Pin 2	external input GND
	Pin 3	*do not connect*
	Pin 4	*not used*
	Pin 5	relay output NC (normally closed)
	Pin 6	relay output C (common)
	Pin 7	relay output NO (normally open)
	Pin 8	external input signal

Table 7.1 Explanation of the pin functions

7.4 Microphone and loudspeaker connection

An external microphone and an external loudspeaker can be connected. Open the top cover of the unit and remove the battery pack cover to access the compartment. Locate the sockets of the microphone (1) and loudspeaker (2) and plug the corresponding jacks. Fasten the cables into the channels on the battery pack cover



7.5 microSD memory card

The Carephone 61 can be equipped with a microSD memory card to perform a fast and easy programming.

NOTICE!

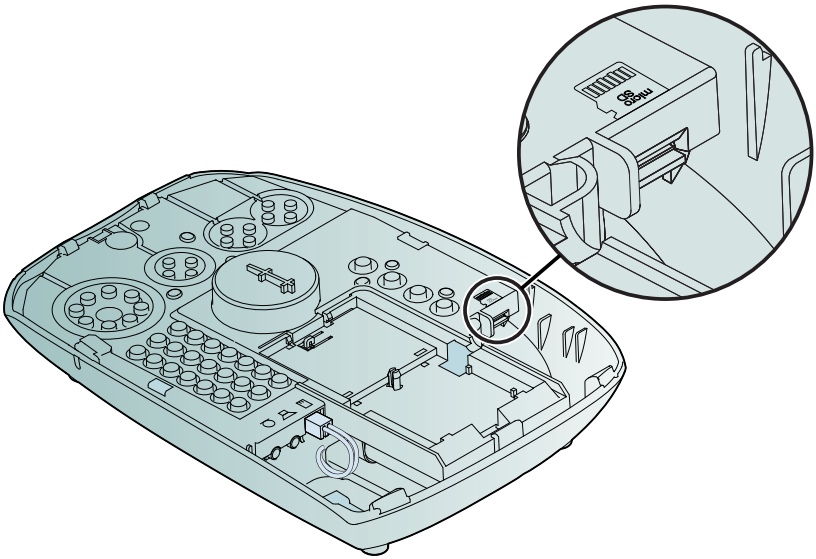
Use only a microSD memory card of maximum 2 GB capacity.

7.5.1 Installing the microSD memory card

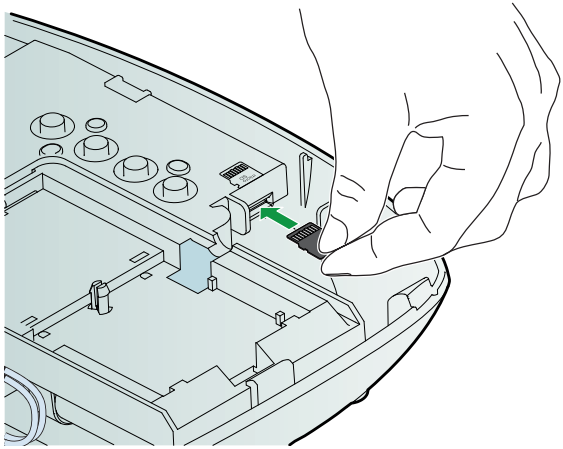
CAUTION!

When inserting or removing the microSD memory card, make sure that the power supply unit is disconnected from the socket on the back of the Carephone 61. See *Section 5.3.1 PSTN or GSM connection, page 13*, socket number 2.

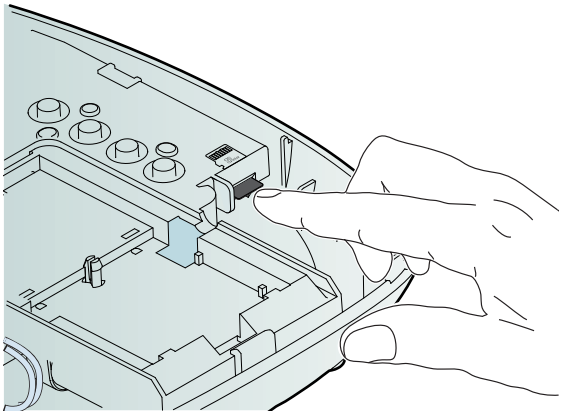
1. Remove the plug of the power supply unit from the socket on the Carephone 61.
2. Open the top cover of the unit to access to the connection compartment. The location of the microSD port is indicated in the following diagram.



3. Take the microSD memory card in the hand and place it with the contacts facing you, as on the drawing.



4. Insert the microSD memory card in the slot and push it until you feel the mechanism has clutched it.
5. Insert the plug of the power supply unit from the socket on the Carephone 61.
6. Perform the programming action that you wish. See *Section 7.5.2 Programming with the microSD memory card, page 32*.
7. When you are finished and wish to remove the microSD memory card, remove the plug of the power supply unit from the socket on the Carephone 61.



8. To disengage it from the slot, simply push on the end of the microSD memory card and gently pull it out.

7.5.2 Programming with the microSD memory card

Programming the Carephone 61 with the microSD memory card consists of calling different programming functions. These programming functions are executed with special key combinations.

NOTICE!
Before programming with the microSD memory card, make sure that the Carephone 61 is connected to the mains with the power supply unit.

Press the key combination of your choice and the unit will perform the function associated to it.

NOTICE!
Before reading from the microSD memory card, make sure that it contains a file. Before writing to the microSD memory card, make sure that it is not write-protected. Existing files with same names will be overwritten.

Read settings from the microSD memory card to the Carephone 61:

Function	Press together for at least 2 s:
Read factory settings	**P**, **F** and **1**
Read user settings	**P**, **F** and **2**
Read firmware	**P**, **F** and **3**
Read user settings (programming steps 91 and 30 will not be modified)	**P**, **F** and **4**

NOTICE!
After reading the firmware to the Carephone 61 (key combination **P**, **F** and **3**), make sure to perform a test alarm. See *Section 6.3 Test instructions, page 26*.

Write settings from the Carephone 61 to the microSD memory card:

Function	Press together for at least 2 s:
Write factory settings	**P**, **D** and **1**
Write user settings	**P**, **D** and **2**
Write the event history: the last 500 events within the Carephone 61 are copied into a file on the microSD memory card.	**P**, **D** and **3**

In all cases, the unit beeps and the corresponding settings are copied into a file on the microSD memory card. When it has finished, the unit beeps again and returns to standby.

8 Operation

8.1 Emergency Call to a Monitoring Centre

How the emergency call is processed at the monitoring centre

1. Initiate an emergency call with the Carephone 61 or the wireless transmitter.
2. The emergency call is sent.
3. An operator at the monitoring centre takes your call.
4. Speak to the operator.
5. Wait until assistance arrives.

8.2 Emergency Call to a Private Phone

The Carephone 61 can be programmed to send an emergency call to a private phone. The emergency call from the Carephone 61 is received just like a normal phone call.

How the emergency call is received on a private phone line

1. Initiate an emergency call with the Carephone 61 or the wireless transmitter.
2. The emergency call is sent.
3. The person picks up the phone.
4. The Carephone 61 announces immediately **"call, call"** to the person rendering assistance.
5. This is followed by an announcement telling the person how the emergency call was made, e.g. with the emergency call button or the wireless transmitter, and who made it.
6. The announcement can be repeated as often as required by pressing **2** on the phone.
7. When the announcement ends, a speak / listen connection in hands-free mode is set up between the person calling for assistance and the person answering the call.
8. The call remains connected for approx. 3 minutes.
   Three tones sound when the time has expired.
   Press **0** to terminate the call.

9. You can extend the call by a further 3 minutes by pressing **1** on the phone. The call can be extended as often as required.

NOTICE!
Instead of the subscriber number, a personal message can be recorded, e.g. "**This is Mrs. Brown's emergency call unit...**", see *Section 6.2.4 Programming steps, page 17*.

CAUTION!
If the emergency call is not terminated by pressing **0**, or not extended by pressing **1**, the call will not be properly processed. The Carephone 61 will automatically dial the next call number when the existing call has been cancelled.

Key functions on the destination phone
The following key functions on the destination phone can be used for an emergency call with the Carephone 61.

Key	Function
0	Terminate and acknowledge the call.
1	Extend the call by another 3 minutes.
2	Repeat the alarm message.
3	Speak with normal volume to the Carephone 61.
4	Listen to the Carephone 61.
5	Increase the volume and speak to the Carephone 61.
6	Reduce the volume and speak to the Carephone 61.
7	Duplex mode (two-way operation).
8 & **0**	Cancel the repeated call function for the call by pressing **8** then **0**.
9	Reject the call and terminate. The Carephone 61 dials the next number on the list.
#	Remote activation of the relay output, only when programming step **72** is set to **6**, see *Section 6.2.4 Programming steps, page 17*.

8.3 Taking Phone Calls

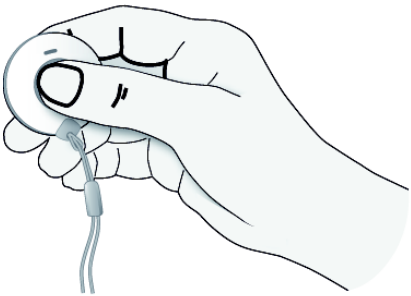
The Carephone 61 can be programmed so that you can take phone calls using the emergency call button on the unit or using the wireless transmitter. For this, the programming step 61 must not be set to 0. See Section 61 Incoming call recognition, page 24.

Taking phone calls with the Carephone 61

– To take a phone call with the Carephone 61, press the emergency call button when the phone rings.
– To stop the call, press the emergency call button again.

Taking phone calls with the wireless transmitter

– To take a phone call with the wireless transmitter, press the button of your wireless transmitter when the phone rings.



– To terminate the call, press the button of your wireless transmitter again.

9 Maintenance

The installer should perform the following checks:

- Check the unit's housing for damage such as cracks or chips.
- Test the key functions and check that the spaces in between the keys are clean.
- Check regularly the cords for damage.

9.1 Cleaning

- Regularly clean the surface of the Carephone 61 with a soft cloth. If required, dampen the cloth lightly with a pH-neutral cleaning product.
- Do not spray cleaning product onto the unit housing. The surface of the housing can be damaged by abrasive products or products containing alcohol, cleaning products containing alcohol or vinegar, cleaning products for glass or plastics, disinfectants except Incidur©, methylated spirits, petroleum ether, other aggressive agents.
- If necessary, remove the top cover of the Carephone 61 and clean the spaces in between the buttons. For cleaning purposes, the buttons can be detached by applying light pressure.

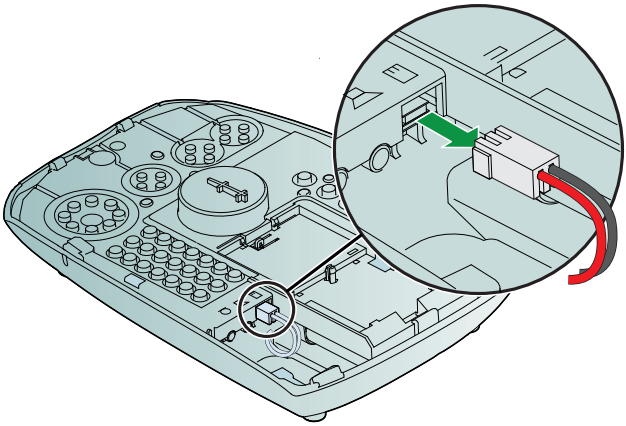
9.2 Battery disposal

Battery distributors are required by law to take back used batteries; they must not be thrown away as household waste. Please return used batteries to your specialist retailer or take them to a recycling centre intended for this purpose.

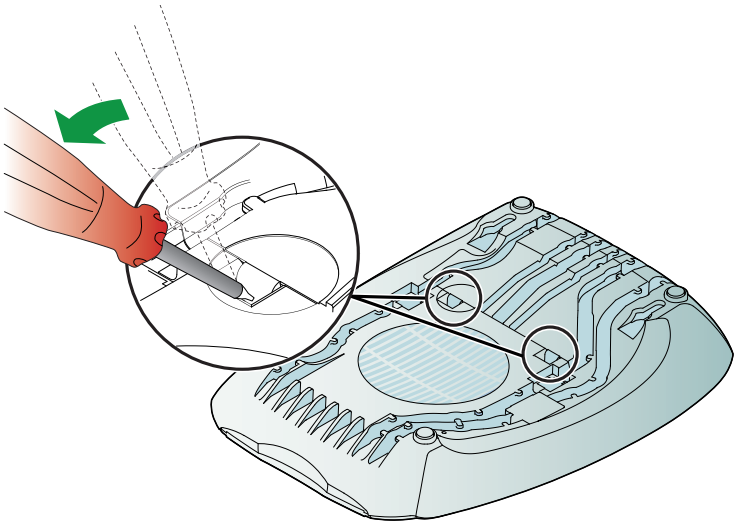
9.3 Replacing the backup battery

The backup battery of the Carephone 61 has a limited operating life and should be replaced after 3 years. To replace the battery:

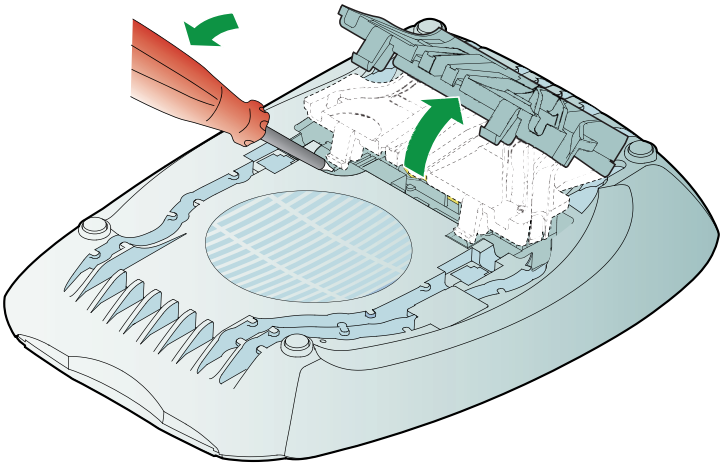
1. Disconnect the power cord from the unit.
2. Disconnect the plug of the backup battery from the Carephone.



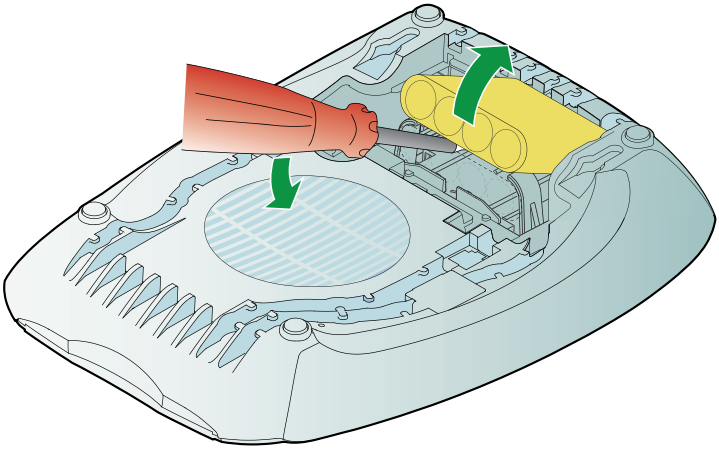
3. Release the battery pack cover from the two clips, by levering up with a screwdriver.



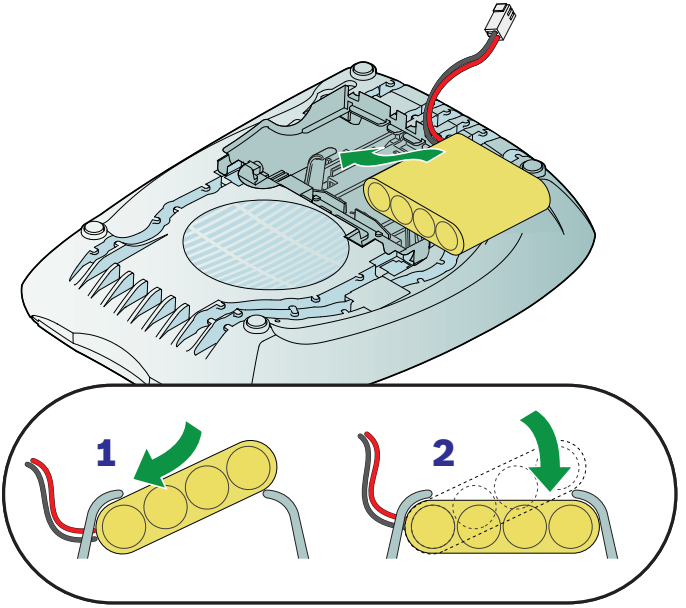
4. Open the battery pack cover.



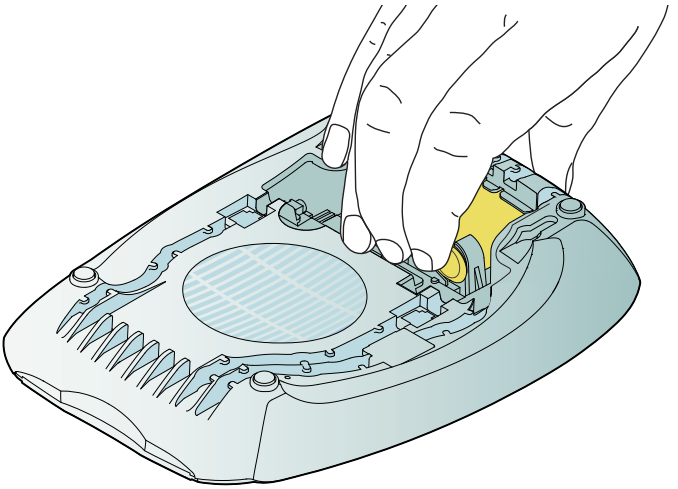
5. Lever off the battery with a screwdriver and release it from the two braces. Pull it out gently from its location.



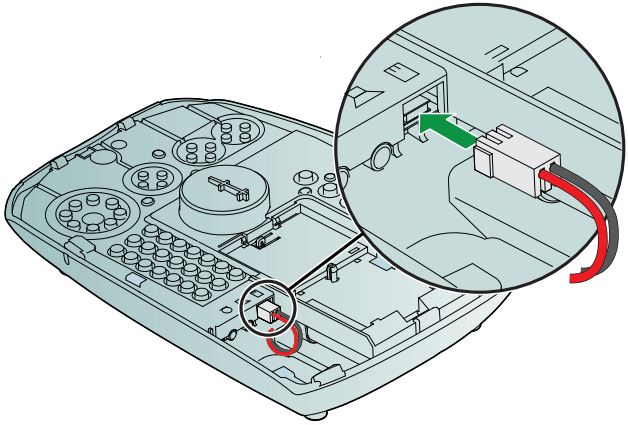
6. Place the new battery with one brace engaged.



7. Push the side of the new battery over the other brace until it is clipped.



8. Push on the end of the new battery to place it precisely into its location.



9. Connect the plug of the backup battery into the socket. The plug can be reversed.
10. Close the battery pack cover.

A Appendix

A.1 Technical specifications

Dimensions (H x W x D)	55 x 160 x 230 mm
Weight	approximately 0.7 kg
Permissible temperature	operation: +5°C to +40°C storage: - 20°C to +60 °C
Humidity	85%
Switched-mode power supply	Adapter 230 V primary, 7.5 V secondary
Backup battery	4.8 V NiMH battery, 1.6 Ah, up to 120 hours in standby
Current consumption	approx. 95 mA standby with power supply approx. 12 mA standby in battery operation
Phone line connection	PSTN
Dial mode	Tone dial
Frequency	869.2125 MHz
Receiver	complies with class 1 as specified in EN 300220-1 V2.1.1
Protection class	IP32 (IP30 wall mounting), IP67 wireless transmitter
Environmental class	Class 1
Max. number of wireless transmitters or detectors	10
Emergency call protocols	Multi-protocol enabled (RB2000, RB2000E, ANT, TTnew+, CPC, BS8521, RBIP, telephone)
Programmable call numbers	10 call numbers with up to 22 digits and freely assignable to any type of trigger group.
Volume settings	8 levels
Voice message	Recordable
Hands-free range	> 5 m
Available languages	German, Dutch, French, English, Spanish

Accessibility	synthetic speech disabled mode
User guidance	Voice output and LED indication
Programming possibilities	integrated keyboard, serial connection with a PC, microSD memory card (2 GB maximum capacity, Sandisk or Kingston), remote programming from monitoring centre, separate programming tool, protected by PIN
Inputs and outputs	1 input and 1 relay output (max 30 VDC) Serial connection IP connection (optional) microSD port 3.5 mm jack external loudspeaker and microphone GSM gateway (optional)
CE Directives	CE (R&TTE 1999/5/EC, LVD 73/23/EEC, EMC 89/336/EEC)
Standards complied with	EN50134-2 EN50134-3 EN301489-1 v1.8.1 EN301489-3 v1.4.1 EN300220-2 v2.1.2 Class 1 radio receiver EN50371 EN60950-1 EN50130-4 EN55022

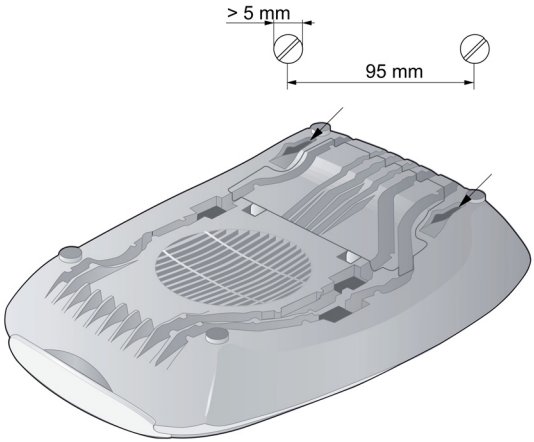
A.2 Conformity

All connected parts must meet the electric strength of TNV3, EN 60950. The Carephone 61 is designed for operation on the public analog telephone network and ethernet network. The wireless transmitter that is supplied with the unit uses the frequency specially reserved for social alarm calls in Europe. We, Bosch Security Systems, declare that the above mentioned products are manufactured in compliance with EU Directives 5/1999/EC, LVD 73/23/EEC, EMC 89/336/EEC.

A.3 Wall mounting

For wall mounting you will need two screws with a shank diameter of less than 5 mm and a head diameter between 7 and 9 mm, and two suitable wall plugs.

1. Position the plugs and screws so that the distance between the screw centres measures 95 mm: use the drilling template on the next page.
2. Locate the screws in the holes on the back of the unit.
3. Adjust the screw depth.



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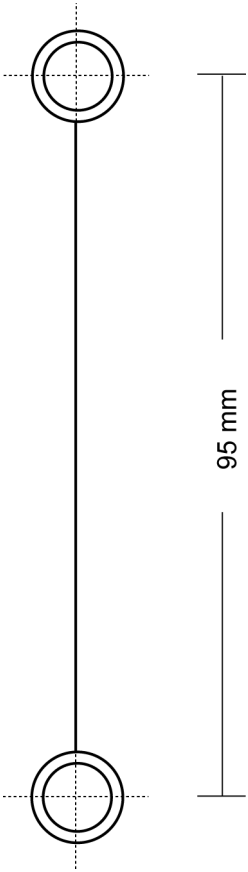
A.4 Drilling template

The drilling template can be used if this document is printed to the correct scale: DIN A5 (148 x 210 mm).



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A.5 Programming tables

Carephone 61 Settings

Programming step				Factory settings
01	Language selection		0 = synthetic speech disabled, 1 = German, 2 = Dutch, 3 = French, 4 = English, 5 = Spanish	
03	Radio jamming		0 = off, 1 = on	0

		Destination number	Protocol		
11	Destination number 1				0
12	Destination number 2				0
13	Destination number 3				0
14	Destination number 4				0
15	Destination number 5				0
16	Destination number 6				0
17	Destination number 7				0
18	Destination number 8				0
19	Destination number 9				0
10	Destination number 10				0

Enter destination number:
Phone numbers:
max. 22 characters: digits, B, D

IP addresses:
12 digits, without dot

Choose Protocol:
0 = Bosch protocol
1 = TTnew+ protocol
3 = CPC protocol
4 = to phone with acknowledgement
5 = to phone without acknowledgement
7 = BS8521 protocol
9 = RBIP protocol

23	Waiting time for repeated emergency call		0...99 minutes, 0 = off	0
24	Confirmation with call		0 = off, 1 = on	0
25	Radio transmission monitoring		0 = off, 1 = on	0
26	Call back waiting time		0...9 minutes, 0 = off	0
28	Call forwarding		0 = forwarding to another number, 1 = forwarding to a telephone.	0
29	Hear/speech impaired		0 = off, 1 = on	0
30	Device number		ANT: 4 digits; RB2000: 6/12 digits, depending on monitoring centre; numbers 0000, 9998, 9999 and 999999 may not be used!	1 2 4 8
32	Call progress tones audible		0 = not audible, 1 = audible	0
33	Speak / Listen command audible		0 = not audible, 1 = audible	1
34	Personal voice recording		max 6 seconds	(empty)

41 to 45 : refer to the user manual of the IP Module

Programming step		Call sequence 1 2 3 4 5 6 7 8 9 10	Factory settings 1 2 3 4 5 6 7 8 9 10
50	Wireless transmitter		1 2 3 4 5 6 7 8 9 0
51	Emergency call		1 2 3 4 5 6 7 8 9 0
53	Repeated emergency call and local confirmation		1 2 3 4 5 6 7 8 9 0
55	Service call / direct call		1 2 3 4 5 6 7 8 9 0
56	Technical messages 1		1 2 3 4 5 6 7 8 9 0
57	Technical messages 2		1 2 3 4 5 6 7 8 9 0
58	Registration call		

enter the call destinations :
0 to 9 = respective call destination (0 means destination number 10)

steps 50 to 57: if no destination number is entered = call all numbers

step 58: if no destination number is entered = no call is made.

60	Number of announcements when calling a telephone	0...9, 0 = off	2
61	Incoming call recognition	0 = off, 1 = with ring tone, 2 = with loud ring tone, 3 = with soft ring tone, 4 = without ring tone	0
62	Loudspeaker volume	default volume 1...8 ; max volume: 1...8 ; min volume: 1...8	4 6 2
63	Acoustical feedback for technical failures	0 = off, 1 = on, 2 = from 7:00 to 21:00	1
70	Automatic test call interval	0...28 days, 0 = off	0
71	Action button (S button)	0 = off, 1 = service button, 3 = activate relay output	0
72	Activate output	0 = off, 1 = speak / listen connection and repeated emergency call, 3 = outgoing emergency call, 4 = incoming call recognition, 5 = wireless transmitter, 6 = remote activation, 7 = speak / listen connection, 8 = pre-alarm, 9 = pre-alarm and speak / listen connection	0
73	Assign input	1 = emergency call button, 2 = service call, 3 = external input ; Input is 0 = normally open contact (closing) 1 = normally closed contact (opening)	3 0
74	Silent alarm	0 = off; 1 = on	0
75	Individual PIN code	6 digits, 0...9	2 4 6 8 1 0
77	Pre-alarm time	0...6 (x 10 seconds), 0 = off	1

		Code	Target	Setting	only when setting = 7 , enter call sequence : 1 2 3 4 5 6 7 8 9 10
91	Wireless transmitter 1		81		81
92	Wireless transmitter 2		82		82
93	Wireless transmitter 3		83		83
94	Wireless transmitter 4		84		84
95	Wireless transmitter 5		85		85
96	Wireless transmitter 6		86		86
97	Wireless transmitter 7		87		87
98	Wireless transmitter 8		88		88
99	Wireless transmitter 9		89		89
90	Wireless transmitter 10		80		80

0 = wireless transmitter (step 50)
1 = emergency call (step 51)
4 = action button (step 71)
5 = external input (step 73, set to 3)
7 = connection to an individual phone number
8 = output assigned (see step 72)

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